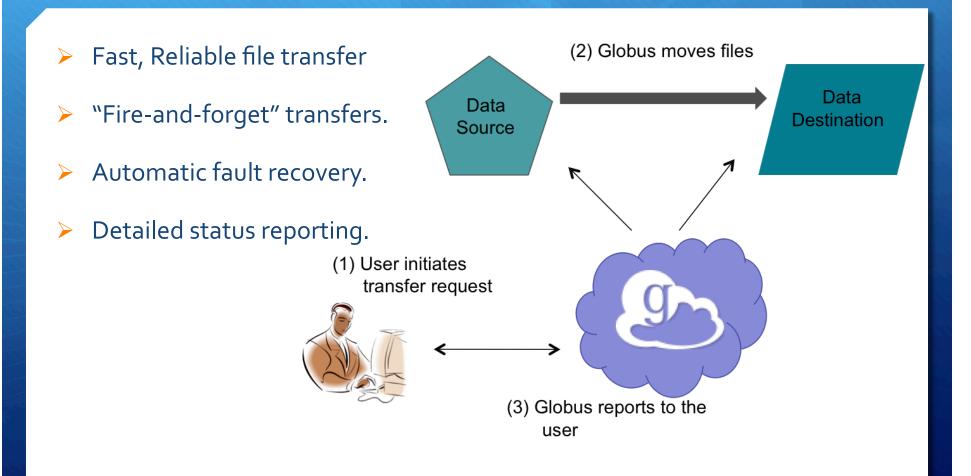


Krishna Muriki & Karen Fernsler HPCS, IT Division, LBNL

# Globus – Managed Transfer service



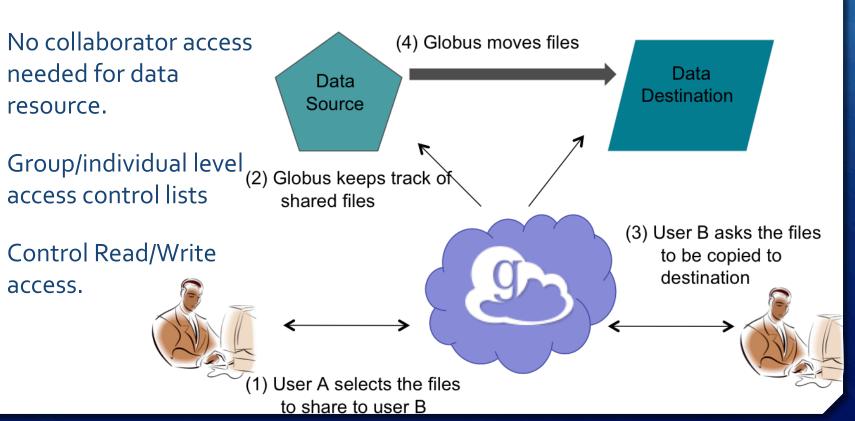
## Globus – Sharing service

Sharing data off systems directly

No collaborator access needed for data resource.

access control lists

Control Read/Write access.

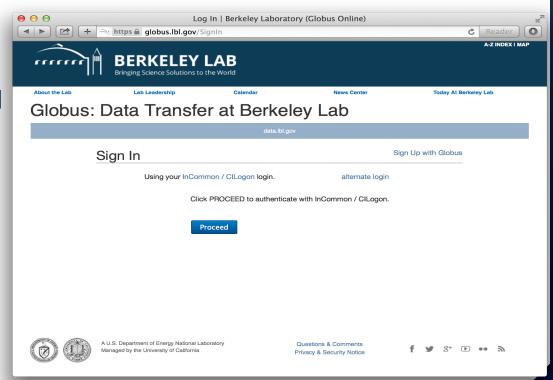


## Globus Partner Program

- LBNL IT + NERSC part of the Partner Program
  - Unlimited Managed endpoints
  - Support for LBL Identity federation

Branded website

- Seat on Advisory Board
- Roadmap Visibility
- Code Escrow



http://globus.lbl.gov

## Globus Partner Program

- Bind your LBL & Globus accounts once
- Use LBL account (via InCommon alternate login) to access Globus portal.

#### Globus: Data Transfer at Berkeley Lab

data.lbl.gov

#### Need to Make a Connection

Your InCommon / CILogon account needs to be linked to a Globus account to make file transfer possible. You will only have to do this once.



Your InCommon / CILogon account is now linked to your Globus account.

You can now use your Globus account or your InCommon / CILogon account to sign in to this website.

Redirecting in 6 seconds

Proceed

## Globus Connect Personal

- Users can create & selectively share endpoints.
- Globus Connect software for individual users



## LBL Managed Globus

LBNL IT & Computing

► Ibnl#lrc HPCS Supercluster, Lawrencium, PI clusters etc

LBNL Physics

> Ibnl#riemann SDSS-III Project computational cluster

bnl#riemann-ro A read only endpoint on the SDSS-III DTN server

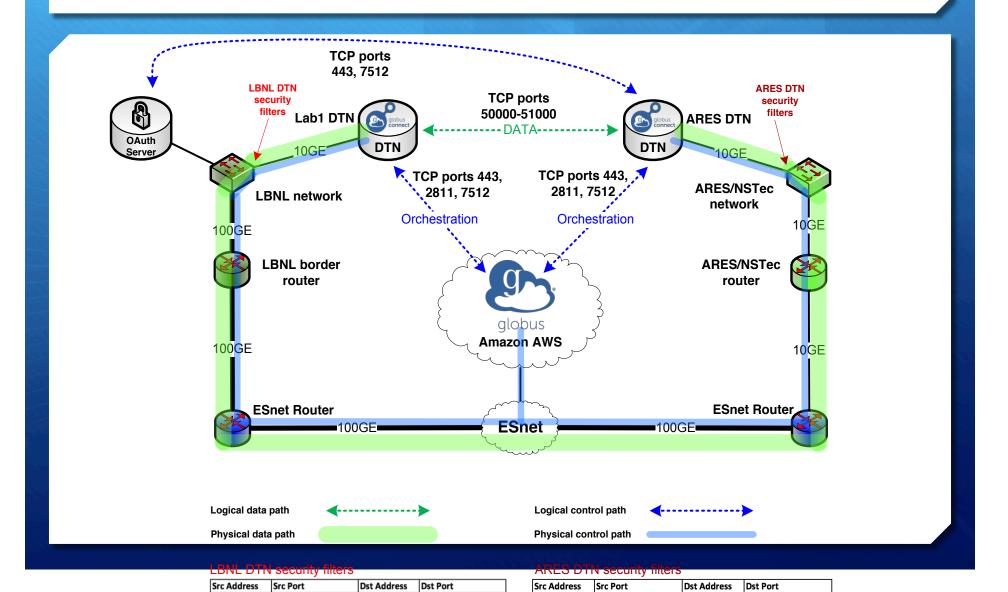
➤ Ibnl#sdss3 An anonymous endpoint for public data sets

- LBNL NSD
  - ▶ Ibnl#ares , Ibnl#aresn-dtn, Ibnl#aress-dtn
- LBNL ALS
  - alsuser#bl832data
- NERSC
  - nersc#edison, nersc#carver, nersc#hopper, nersc#hpss, nersc#pdsf, nersc#dtn\_jgi

## Globus Use Cases – IT can help

- Public dataset access
  - Set up an anonymous GridFTP server serving the selected data
  - Anonymous endpoint so no authentication or proxy life time.
- Share data with remote collaborators
  - > Talk to IT, HPCS to enable sharing on your GridFTP server configuration
  - Add your Globus endpoint to the list of managed endpoints by LBNL IT
  - > Enable power users for sharing for required duration.
  - Globus shared endpoints stay active forever.

## Globus use by ARES project in NSD



LBNL DTN

LBNL DTN

TCP 50000-51000

ARES DTN

TCP 443, 2811, 7512 Globus Cloud TCP unprivileged

TCP 50000-51000

ARES DTN

ARES DTN

TCP 50000-51000

TCP 443, 2811, 7512 Globus Cloud

LBNL DTN

TCP 50000-51000

TCP unprivileged

## Thanks & Questions

- Contact LBNL IT, HPCS
- Email : hpcshelp@lbl.gov

- > For setting up Data Transfer Nodes
- > Setting up & configuration of GridFTP software stacks
- Creating a Managed Globus endpoints
- > Anonymous datasets access and remote collaborator sharing